From: Miller, Garyg

To: <u>Howard, AshleyA; Humphrey, Alan; Grossman, Scott</u>

Cc: Turner, Philip; Khoury, Ghassan; Coltrain, Katrina; Sanchez, Carlos; Meyer, John; Foster, Anne

Subject: RE: San Jacinto Dive Team Sample Results.

Date: Friday, September 29, 2017 7:19:37 AM

Thanks Ashley

Gary Miller

Remedial Project Manager

EPA Region 6 Superfund Division, TX/Ark Section

214-665-8318

miller.garyg@epa.gov

From: Howard, AshleyA

Sent: Thursday, September 28, 2017 6:17 PM

To: Miller, Garyg < Miller.Garyg@epa.gov>; Humphrey, Alan < Humphrey.Alan@epa.gov>; Grossman, Scott < grossman.scott@epa.gov>

Cc: Turner, Philip < Turner. Philip@epa.gov>; Khoury, Ghassan < Khoury. Ghassan@epa.gov>; Coltrain, Katrina < coltrain.katrina@epa.gov>; Sanchez, Carlos < sanchez.carlos@epa.gov>; Meyer, John < Meyer. John@epa.gov>; Foster, Anne < Foster. Anne@epa.gov>

Subject: RE: San Jacinto Dive Team Sample Results.

Gary,

I am unsure if their description came from the sampling event, or another activity during this project.

This was the description from the EPA field notes taken during the sampling event, which is not consistent with their description:

"1.5' x 1.5' sand area next to 1.5' x 1.5' clay area surrounded by areas type A rock. Sample #30 Sample taken from clay"

Alan, Scott, and I reviewed the notes together and agree on this description of the sampling area.

Thanks,

Ashley Howard

From: Miller, Garyg

Sent: Thursday, September 28, 2017 8:48 AM

To: Humphrey, Alan < <u>Humphrey.Alan@epa.gov</u>>; Howard, AshleyA < <u>Howard.AshleyA@epa.gov</u>>; Grossman, Scott < <u>grossman.scott@epa.gov</u>>

Cc: Turner, Philip < Turner. Philip@epa.gov>; Khoury, Ghassan < Khoury. Ghassan@epa.gov>; Coltrain, Katrina < coltrain.katrina@epa.gov>; Sanchez, Carlos < sanchez.carlos@epa.gov>; Meyer, John < Meyer. John@epa.gov>; Foster, Anne < Foster. Anne@epa.gov>

Subject: FW: San Jacinto Dive Team Sample Results.

Folks,

The San Jacinto PRPs' un-validated sediment sample results are on the link below. The highest was 70,900 ng/kg TEQ for sample number 030EPA (attached). The PRPs state below that "The specific sample location is described as 2-4 inches of aggregate cap material, and two 1 foot by 1 foot areas of river sediment on the surface". Please let me know if this is consistent with your observations during the dive.

Thanks,

Gary Miller
Remedial Project Manager
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214-665-8318
miller.garvg@epa.gov

From: David Keith [mailto:dkeith@anchorqea.com]

Sent: Thursday, September 28, 2017 8:14 AM

To: Miller, Garyg < Miller, Garyg@epa.gov>

Cc: Phil Slowiak <<u>philip.slowiak@ipaper.com</u>>; Dave Moreira <<u>dmoreira@wm.com</u>>; Judy Armour

(<u>jarmour@wm.com</u>) < <u>jarmour@wm.com</u>> **Subject:** San Jacinto Dive Team Sample Results.

Gary – The unvalidated results of the sampling conducted by the USEPA Dive Team and associated duplicate samples collected by the Orion Marine Dive Team are posted at the links below.

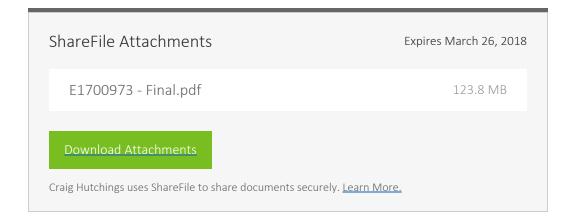
Overall, all of these post-storm assessments demonstrate that there was not a release of material to the environment, and the armored cap performed well.

Of the 28 samples collected, 26 are in the normal range of dioxin and furan TEQ that we have seen in river sediments surrounding the armored cap, and two are higher than the normal range. These two samples are duplicates from the same location. As you know, we performed visual, bathymetric and topographic surveys, and probing inspections to evaluate the integrity of the cap. All of these inspections showed that even though the cap was subjected to flow from a 500+ year storm event, it performed exceptionally well, although it was designed to withstand a 100-year flood event. Approximately 735 probe inspection points were conducted over the entire cap surface. The area where the higher concentration samples were taken was identified as an area of interest in the probing inspection. The specific sample location is described as 2-4 inches of aggregate cap material, and two 1 foot by 1 foot areas of river sediment on the surface – this represents 0.00016 percent of the total armored cap

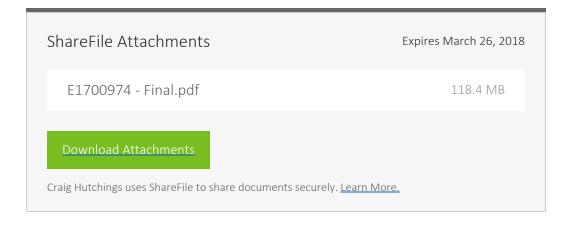
surface. Per USEPA approval, additional cap materials were placed at this location as part of our cap maintenance activities the week of September 17, 2017. All other areas had cap material in place during the probing inspection. The size of this sample location is very small and localized. The other 26 samples collected during the dive team sampling are within the range of concentrations of TEQ observed in river sediments prior to the storm. The sediment and water samples collected on top of the cap in the western and eastern cell on September 7, and September 11, 2017, also had concentrations that were similar to concentrations observed in the river prior to the storm.

To reiterate, all of these post-storm assessments demonstrate that there was not a release of material to the environment, and the armored cap performed well. It should be noted that the recommendations for cap enhancements for the entire northwestern shoreline, as envisioned under Alternative 3aN (the enhanced cap) in USEPA's Feasibility Study for the Site, addresses the need or enhancements to further stabilize this area to prevent the potential for any future issues. Please don't hesitate to contact me if you want to discuss anything.

The link to the final data package for the sediments collected by the EPA dive team is below:



The link to the final data package for the sediments collected by the Orion dive team is below:



Thank you,

David

David Keith Anchor QEA, LLC

Phone: 228-220-1156 Cell: 228-224-2983 dkeith@anchorgea.com

ANCHOR QEA, LLC

www.anchorgea.com

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